Appendix A

Oracle's Disclosure of Products Practicing Patent Claims

1	MORRISON & FOERSTER LLP		
2	MICHAEL A. JACOBS (Bar No. 111664) mjacobs@mofo.com		
3	MARC DAVID PETERS (Bar No. 211725) mdpeters@mofo.com		
4	DANIEL P. MUINO (Bar No. 209624) dmuino@mofo.com		
	755 Page Mill Road		
5	Palo Alto, CA 94304-1018 Telephone: (650) 813-5600 / Facsimile: (650	9) 494-0792	
6	BOIES, SCHILLER & FLEXNER LLP		
7	DAVID BOIES (Admitted <i>Pro Hac Vice</i>) dboies@bsfllp.com		
8	333 Main Street Armonk, NY 10504		
9	Telephone: (914) 749-8200 / Facsimile: (914) STEVEN C. HOLTZMAN (Bar No. 144177		
10	sholtzman@bsfllp.com	,	
11	1999 Harrison St., Suite 900 Oakland, CA 94612	0 074 1460	
12	Telephone: (510) 874-1000 / Facsimile: (510)	1) 8/4-1460	
13	ORACLE CORPORATION DORIAN DALEY (Bar No. 129049)		
14	dorian.daley@oracle.com DEBORAH K. MILLER (Bar No. 95527)		
15	deborah.miller@oracle.com MATTHEW M. SARBORARIA (Bar No. 2)	11600)	
16	matthew.sarboraria@oracle.com 500 Oracle Parkway		
17	Redwood City, CA 94065		
	Telephone: (650) 506-5200 / Facsimile: (650) 506-7114		
18 19	Attorneys for Plaintiff ORACLE AMERICA, INC.		
20	UNITED STAT	TES DISTRICT COURT	
21	NORTHERN DIS	TRICT OF CALIFORNIA	
22	SAN FRAN	NCISCO DIVISION	
23	ORACLE AMERICA, INC. Case No. CV 10-03561 WHA		
24	Plaintiff, v. ORACLE'S DISCLOSURE OF PRODUCTS PRACTICING PATENT CLAIMS		
25	GOOGLE, INC.	Dept.: Courtroom 8, 19th Floor	
26	Defendant.	Judge: Honorable William H. Alsup	
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	ORACLE DISCLOSURE OF PRODUCTS PRACTICING PATENT CLAIMS Case No. CV 10-03561 WHA		

1 Pursuant to the Court's December 6, 2011 Supplemental Order Regarding Patenting 2 Marking (Dkt. No. 641) and the agreement between the parties as set forth in their December 30, 3 2011 Joint Statement Regarding Supplemental Order Regarding Patenting Marking (Dkt. No. 4 661), Plaintiff Oracle America, Inc. ("Oracle") hereby submits the following disclosure regarding 5 Oracle products, Oracle-licensed products, Sun products, and Sun-licensed products ("Oracle 6 Products") that practice or have practiced the asserted claims of the patents-in-suit ("claims-in-7 suit"). 8 I. 9 10 11 12 13 14

DISCLOSURE OF ORACLE PRODUCTS PRACTICING ASSERTED CLAIMS

Oracle here identifies instrumentalities, source code citations and/or documentation, fact witnesses who possess information supporting Oracle's contentions regarding Oracle Products that practice the claims-in-suit, and a summary of testimony Oracle intends to elicit at trial from those witnesses regarding those products' practice of the claims-in-suit. The identified products have numerous releases and versions – including for various platforms (x86, SPARC, etc.) – that do not vary substantively as to their implementation of the patented techniques at issue. Accordingly, the citations below are exemplary, not exhaustive, and are intended to guide Google's evaluation of the use of the patented inventions in Oracle Products. The identification of particular witnesses in association with particular products below represents Oracle's present intention; Oracle reserves the right to substitute witnesses with respect to the Oracle products, in accordance with the Joint Final Pretrial Statement, to accommodate the needs of the trial and the witnesses' schedules.

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A. The '104 Patent

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The following Oracle Products practice the asserted claims of the '104 patent, as exemplified by the identified source code citations and/or documentation:

4	Identified	Source Code Citations /	Testifying Fact Witness And
	Instrumentality	Documentation	Summary
5	JDK 1.0 and	JDK 1.0 version:	Peter Kessler will testify in support
6	subsequent versions	classinitialize.c	of Oracle's contention that the
		interpreter.c	identified instrumentalities practice
7	JRE 1.1.1 and		the asserted claims of the '104 patent.
8	subsequent versions	JDK 1.1 version: classinitialize.c	He will explain the function and operation of the features of the
	HotSpot 1.0 and	executeJava.c	products, with reference to source
9	subsequent versions	interpreter.c	code and documentation, that
10			implement the asserted claims of the
		JDK 1.2 version:	'104 patent. He will further testify
11		classinitialize.c	that although the identified
12		executeJava.c	instrumentalities have a number of
		interpreter.c	releases and versions, these do not vary substantively as to the features
13		HotSpot version:	that implement the claimed
14		interpreterRuntime.cpp	inventions. He will describe the
		templateTable.cpp	major components of the JDK,
15		templateTable_sparc.cpp	including the Java SE class libraries
16			and Java Virtual Machine (JVM), as
10			well as the inclusion of and transition
17			to the HotSpot virtual machine.
18			Peter Kessler will testify that the
4.0			identified versions of JRE encompass
19			the JDK and therefore implement the
20	T GE C	1 11 1	asserted claims in the same way.
21	Java SE for Embedded 1.4.2_11	see above and below	Robert Vandette will testify that the identified versions of Java SE
21	and subsequent		Embedded are based on Java SE and
22	versions		the HotSpot virtual machine sources
23			and therefore implement the asserted claims in the same way. He will
			testify that some releases used the
24			CDC virtual machine technology
25			(known as CVM), and therefore
			implement the asserted claims in the
26			same way. He will further testify that
27			although the identified instrumentalities have a number of
			releases and versions, these do not
28			refeases and versions, these do not

1	Identified	Source Code Citations /	Testifying Fact Witness And
2	Instrumentality	Documentation	Summary
2			vary substantively as to the features
3			that implement the claimed
4	INCE 1.2 (loter collect	see above	inventions. Mark Reinhold will testify that the
4	J2EE 1.2 (later called Java EE) and	see above	identified versions of Java EE are
5	subsequent versions		bundled with Java SE and the JDK
			and therefore implement the asserted
6			claims in the same way. He will
7			further testify that although the
0			identified instrumentalities have a
8			number of releases and versions,
9			these do not vary substantively as to the features that implement the
			claimed inventions.
10	Java Real Time 1.0	see above	John Pampuch will testify that the
11	and subsequent		identified versions of Java Real Time
	versions		are based on JDK 1.4 and HotSpot
12			(and subsequent versions) and
13			therefore implement the asserted
			claims in the same way. He will further testify that although the
14			identified instrumentalities have a
15			number of releases and versions,
			these do not vary substantively as to
16			the features that implement the
17	CD C DI I O I CD C		claimed inventions.
	CDC RI 1.0 and CDC HI 1.0 and	constantpool.c	Noel Poore will testify in support of Oracle's contention that the identified
18	subsequent versions	constantpool.h executejava_split1.c (or	instrumentalities practice the asserted
19	of each	executejava_standard.c or	claims of the '104 patent. He will
		executejava.c)	explain the function and operation of
20	CDC AMS 1.0,	interpreter.h	the features of the products, with
21	1.0_1, and 1.0_2	quicken.c	reference to source code and
	(Personal Basis Profile and Personal		documentation, that implement the
22	Profile versions)		asserted claims of the '104 patent. He will further testify that although
23	Trome versions)		the identified instrumentalities have a
	Personal Profile RI		number of releases and versions,
24	1.0 and subsequent		these do not vary substantively as to
25	versions		the features that implement the
	Personal Profile HI		claimed inventions.
26	1.1.1		
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20	Personal Basis		
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1	Identified	Source Code Citations /	Testifying Fact Witness And
2	Instrumentality	Documentation	Summary
2	Profile RI 1.0 and		·
3	subsequent versions		
4	Personal Basis Profile HI 1.1.1		
5			
6	Foundation Profile 1.0 and subsequent		
7	versions		
8	CDC ToolKit 1.0 or		
9	Java ME SDK 3.0 EA and subsequent		
10	versions CLDC RI 1.0 and 1.1	For CLDC RI and WTK listed	Mark Reinhold will testify in support
11	WTK 1.0 or Java ME	versions: bytecodes.c	of Oracle's contention that the
12	SDK 3.0 EA and	cache.c	identified instrumentalities practice the asserted claims of the '104 patent.
10	subsequent versions	cache.h	He will explain the function and
13		interpret.c	operation of the features of the
14	CLDC HI 1.0 and subsequent versions	interpret.h	products, with reference to source code and documentation, that
15	1	For CLDC HI and Oracle Java	implement the asserted claims of the
16	Oracle Java Wireless	Wireless Client listed	'104 patent. He will further testify
	Client (formerly Sun Java Wireless Client)	versions: Interpreter_c.cpp	that although the identified instrumentalities have a number of
17	1.0 and subsequent	TemplateTable.cpp	releases and versions, these do not
18	versions	TemplateTable.hpp	vary substantively as to the features
19		TemplateTable_arm.cpp TemplateTable_i386.cpp	that implement the claimed inventions.
		TemplateTable_sh.cpp	
20		TemplateTable_thumb2.cpp	
21	PersonalJava 1.0 and subsequent versions	classinitialize.c executeJava.c	John Pampuch will testify in support of Oracle's contention that the
22		interpreter.c	identified instrumentalities practice
23	EmbeddedJava 1.0 and subsequent		the asserted claims of the '104 patent. He will explain the function and
	versions		operation of the features of the
24			products, with reference to source
25	JavaOS 1.0 (and variants, including		code and documentation, that implement the asserted claims of the
26	Java PC) and		'104 patent. He will further testify
	subsequent versions		that although the identified
27			instrumentalities have a number of
28			releases and versions, these do not

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Identified	Source Code Citations /	Testifying Fact Witness And
Instrumentality	Documentation	Summary
		vary substantively as to the features
		that implement the claimed
		inventions.
Java Card connected	bytecodes.c	John Pampuch will testify in support
platform 3.0 and	infrequent_bytecodes.c	of Oracle's contention that the
subsequent versions	execute.c	identified instrumentalities practice
		the asserted claims of the '104 patent.
		He will explain the function and
		operation of the features of the
		products, with reference to source
		code and documentation, that
		implement the asserted claims of the
		'104 patent. He will further testify
		that although the identified
		instrumentalities have a number of
		releases and versions, these do not
		vary substantively as to the features
		that implement the claimed
		inventions.

B. The '205 Patent

The following Oracle Products practice the asserted claims of the '205 patent, as exemplified by the identified source code citations and/or documentation:

Identified	Source Code Citations /	Testifying Fact Witness And
Instrumentality	Documentation	Summary
JDK 1.2 and	HotSpot 1.0 version:	Peter Kessler will testify in support of
subsequent versions	instanceKlass.cpp	Oracle's contention that the identified
	interp_masm_sparc.cpp	instrumentalities practice the asserted
JRE 1.2 and	interpreter_sparc.cpp	claims of the '205 patent. He will
subsequent versions	interpreterRuntime.cpp	explain the function and operation of
	linkResolver.cpp	the features of the products, with
HotSpot 1.0 and	methodOop.cpp	reference to source code and
subsequent versions	methodOop.hpp	documentation, that implement the
	nmethod.hpp	asserted claims of the '205 patent. He
	rewriter.cpp	will further testify that although the
	templateTable.cpp	identified instrumentalities have a
	templateTable_sparc.cpp	number of releases and versions, these
	vm_operations.cpp	do not vary substantively as to the
		features that implement the claimed
	Another example:	inventions. He will describe the major
	bytecode.hpp	components of the JDK, including the
	globals.hpp	Java SE class libraries and Java
	instanceKlass.cpp	Virtual Machine (JVM), as well as the

1	Identified Instrumentality	Source Code Citations /	Testifying Fact Witness And
2	Instrumentality	Documentation rewriter.cpp	Summary inclusion of and transition to the
3		templateTable.cpp	HotSpot virtual machine.
3		templateTable_i486.cpp	
4		H (0) (2)	Peter Kessler will testify that the
5		HotSpot 2.0 version: ciEnv.cpp	identified versions of JRE encompass the JDK and therefore implement the
		interpreter_sparc.cpp	asserted claims in the same way.
6		methodOop.cpp	
7		methodOop.hpp	
8		templateTable.cpp templateTable_sparc.cpp	
o		temprate rabie_spare.cpp	
9		Another example:	
10		bytecode.hpp	
		globals.hpp instanceKlass.cpp	
11		rewriter.cpp	
12		templateTable.cpp	
13		templateTable_i486.cpp	
		JDK 1.3 to 1.6 example:	
14		templateTable_i486.cpp	
15		IDW 7	
16		JDK 7 example: templateTable_x86_32.cpp	
		стристине_лоо_32.ерр	
17		JDK 8 example:	
18		instanceKlass.cpp	
19		rewriter.cpp templateTable.cpp	
17		templateTable_x86_32.cpp	
20	Java SE for	see above and below	Robert Vandette will testify that the
21	Embedded 1.4.2 and		identified versions of Java SE Embedded are based on Java SE and
22	subsequent versions		the HotSpot virtual machine sources
22			and therefore implement the asserted
23			claims in the same way. He will
24			testify that some releases used the CDC virtual machine technology
			(known as CVM), and therefore
25			implement the asserted claims in the
26			same way. He will further testify that
27			although the identified instrumentalities have a number of
			releases and versions, these do not
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1	Identified	Source Code Citations /	Testifying Fact Witness And
2	Instrumentality	Documentation	Summary
			vary substantively as to the features
			that implement the claimed inventions.
	J2EE 1.2 (later called	see above	Mark Reinhold will testify that the
	Java EE) and		identified versions of Java EE are
	subsequent versions		bundled with Java SE and the JDK,
			and therefore implement the asserted
			claims in the same way. He will
			further testify that although the
			identified instrumentalities have a
			number of releases and versions, these
			do not vary substantively as to the
			features that implement the claimed
Ļ			inventions.
	Java Real Time	see above	John Pampuch will testify that the
	System 1.0 and		identified versions of Java Real Time
	subsequent versions		are based on JDK 1.4 and HotSpot
			(and subsequent versions) and
			therefore implement the asserted
			claims in the same way. He will
			further testify that although the
			identified instrumentalities have a
			number of releases and versions, these
			do not vary substantively as to the
			features that implement the claimed inventions.
F	CDC HI 1.1.1 and	classcreate.c	
			Noel Poore will testify in support of Oracle's contention that the identified
	subsequent versions	executejava_standard.c interpreter.h	instrumentalities practice the asserted
	Personal Profile HI	jitcompile.c	claims of the '205 patent. He will
Ì	1.1.1	jitemitter_cpu.c	explain the function and operation of
Ì	1,1,1	jitgrammarrules.jcs	the features of the products, with
l	Personal Basis	jit_common.c	reference to source code and
	Profile HI 1.1.1	jit_common.h	documentation, that implement the
		jit_cpu.S	asserted claims of the '205 patent. He
	CDC AMS 1.0,	J	will further testify that although the
l	1.0_1, and 1.0_2		identified instrumentalities have a
	(Personal Basis		number of releases and versions, these
	Profile and Personal		do not vary substantively as to the
	Profile versions)		features that implement the claimed
	- · · · · · · · · · · · · · · · · · · ·		inventions.
H	CLDC HI 1.1 and	InterpreterRuntime.cpp	Mark Reinhold will testify in support
	subsequent versions	Method.cpp	of Oracle's contention that the
	1	Method.hpp	identified instrumentalities practice
	CLDC RI 1.1.1	SharedStubs_arm.cpp	the asserted claims of the '205 patent.
		SharedStubs_i386.cpp	He will explain the function and
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Identified	Source Code Citations /	Testifying Fact Witness And
Instrumentality	Documentation	Summary
	SharedStubs_sh.cpp	operation of the features of the
	SharedStubs_thumb2.cpp	products, with reference to source
	TemplateTable.cpp	code and documentation, that
	TemplateTable.hpp	implement the asserted claims of the
	TemplateTable_arm.cpp	'205 patent. He will further testify
	TemplateTable_i386.cpp	that although the identified
	TemplateTable_sh.cpp	instrumentalities have a number of
	TemplateTable_thumb2.cpp	releases and versions, these do not
		vary substantively as to the features
		that implement the claimed inventions.

C. The '702 Patent

The following Oracle Products practice the asserted claims of the '702 patent, as exemplified by the identified source code citations and/or documentation:

Identified	Source Code Citations /	Togtifying Foot Witness And
		Testifying Fact Witness And
Instrumentality	Documentation	Summary
JavaOS 1.1 (and	class.c	John Pampuch will testify in support of
variants, including	ClassClass.java	Oracle's contention that the identified
Java PC)	ClassConstant.java	instrumentalities practice the asserted
	classinitialize.c	claims of the '702 patent. He will
	classloader.c	explain the function and operation of the
	ConstantPool.java	features of the products, with reference
	DoubleValueConstant.java	to source code and documentation, that
	FieldConstant.java	implement the asserted claims of the
	FileLoader.java	'702 patent. He will further testify that
	FMIrefConstant.java	although the identified instrumentalities
	InterfaceConstant.java	have a number of releases and versions,
	JavaOSVM.java	these do not vary substantively as to the
	Jld.java	features that implement the claimed
	Main.java	inventions.
	MethodConstant.java	
	MultiClass.java	
	NameAndTypeConstant.java	
	Single Value Constant. java	
	UnicodeConstant.java	
Java Card platform	PackageConverter.java	John Pampuch will testify in support of
2.1 and subsequent	ClassConverter.java	Oracle's contention that the identified
versions	JcConstantPool.java	instrumentalities practice the asserted
VCISIOIIS	Jeconstanti oor.java	claims of the '702 patent. He will
		explain the function and operation of the
		features of the products, with reference
		-
		to source code and documentation, that
		implement the asserted claims of the

Identified Instrumentality	Source Code Citations / Documentation	Testifying Fact Witness And Summary
v		'702 patent. He will further testify that
		although the identified instrumentalities
		have a number of releases and versions,
		these do not vary substantively as to the
		features that implement the claimed
		inventions.

D. The '476 Patent

The following Oracle Products practice the asserted claims of the '476 patent, as exemplified by the identified source code citations and/or documentation:

Identified	Source Code Citations	Testifying Fact Witness And Summary
Instrumentality	/ Documentation	
JDK 1.2 and	ProtectionDomain.java	Mark Reinhold will testify regarding how
subsequent versions	Permission.java	the identified instrumentalities practice the
	BasicPermission.java	claim-in-suit of the '476 patent. In doing
JRE 1.2 and	AccessController.java	so, he will refer to the identified source
subsequent versions	SecurityManager.java	code citations and documentation to
		explain how the identified
		instrumentalities practice the claim-in-suit
		of the '476 patent. He will further testify
		that although the identified
		instrumentalities have a number of
		releases and versions, these do not vary
		substantively as to the features that
		implement the claimed inventions. He
		will describe the major components of the
		JDK, including the Java SE class libraries
		and Java Virtual Machine (JVM).
		Mouly Dainhald will tootify that the
		Mark Reinhold will testify that the
		identified versions of JRE encompass the
		JDK and therefore practice the patented
		techniques of the claim-in-suit in the same
Java SE for	see above and below	Way. Pobort Vandatta will testify that the
	see above and below	Robert Vandette will testify that the identified versions of Java SE Embedded
Embedded 1.4.2_11		
and subsequent		are based on Java SE and the HotSpot
versions		virtual machine sources and therefore
		implement the asserted claims in the same
		way. He will testify that some releases
		used the CDC virtual machine technology
		(known as CVM), and therefore
		implement the asserted claims in the same

1	Identified Instrumentality	Source Code Citations / Documentation	Testifying Fact Witness And Summary
2	Institution and	/ Documentation	way. He will further testify that although
3			the identified instrumentalities have a
4			number of releases and versions, these do not vary substantively as to the features
			that implement the claimed inventions.
5	J2EE 1.2 (later called Java EE) and	see above	Mark Reinhold will testify that the identified versions of Java EE are bundled
6	subsequent versions		with Java SE and the JDK and therefore
7			implement the asserted claims in the same
8			way. He will further testify that although the identified instrumentalities have a
9			number of releases and versions, these do
			not vary substantively as to the features that implement the claimed inventions.
10	Java Real Time	see above	John Pampuch will testify that the
11	System 1.0 and		identified versions of Java Real Time are
12	subsequent versions		based on JDK 1.4 and HotSpot (and subsequent versions) and therefore
13			implement the asserted claims in the same
			way. He will further testify that although the identified instrumentalities have a
14			number of releases and versions, these do
15			not vary substantively as to the features that implement the claimed inventions.
16	CDC RI 1.0 and	ProtectionDomain.java	Noel Poore will testify that the identified
17	CDC-HI 1.0, and	Permission.java	versions of the listed instrumentalities are
18	subsequent versions	BasicPermission.java AccessController.java	based on JDK 1.3 and 1.4, and therefore practice the patented techniques of the
	CDC AMS 1.0, 1.0_1,	SecurityManager.java	claim-in-suit of the '476 patent in the same
19	and 1.0_2 (Personal Basis Profile and		way. He will further testify that although the identified instrumentalities have a
20	Personal Profile		number of releases and versions, these do
21	versions)		not vary substantively as to the features that implement the claimed inventions.
22	Personal Profile RI		1
23	1.0 and subsequent versions		
24	Personal Profile HI		
25	1.1.1		
26	Personal Basis Profile		
27	RI 1.0 and subsequent versions		
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Identified	Source Code Citations	Testifying Fact Witness And Summary
Instrumentality	/ Documentation	
Personal Basis Profile		
HI 1.1.1		
Foundation Profile 1.0.2 and subsequent versions		
CDC Toolkit 1.0 and		
Java ME SDK 3.0 EA and subsequent		
versions		
Java Card connected	ProtectionDomain.java	John Pampuch will testify in support of
platform 3.0 and	Permission.java	Oracle's contention that the identified
subsequent versions	BasicPermission.java	instrumentalities practice the asserted
	AccessController.java	claims of the '476 patent. He will explain
		the function and operation of the features
		of the products, with reference to source
		code and documentation, that implement
		the asserted claims of the '476 patent. He will further testify that although the
		identified instrumentalities have a number
		of releases and versions, these do not vary
		substantively as to the features that
		implement the claimed inventions.

E. The '520 Patent

The following Oracle Products practice the asserted claims of the '520 patent, as exemplified by the identified source code citations and/or documentation:

Identified	Source Code Citations /	Testifying Fact Witness And Summary
Instrumentality	Documentation	
CLDC HI 1.1.3	BytecodeOptimizer.cpp	Mark Reinhold will testify in support of
and subsequent	BytecodeOptimizer.hpp	Oracle's contention that the identified
versions	Bytecodes.hpp	instrumentalities practice the asserted claims
	TemplateTable.cpp	of the '520 patent. He will explain the
CLDC RI 1.1.1 and		function and operation of the features of the
subsequent		products, with reference to source code and
versions		documentation, that implement the asserted
		claims of the '520 patent. He will further
		testify that although the identified
		instrumentalities have a number of releases
		and versions, these do not vary substantively
		as to the features that implement the claimed
		inventions.

Identified Instrumentality	Source Code Citations / Documentation	Testifying Fact Witness And Summary
Java Card platform	ClinitConverter.java	John Pampuch will testify in support of
2.1 and subsequent	ClassConverter.java	Oracle's contention that the identified
versions	JcConstantPool.java	instrumentalities practice the asserted claims
		of the '520 patent. He will explain the
		function and operation of the features of the
		products, with reference to source code and
		documentation, that implement the asserted
		claims of the '520 patent. He will further
		testify that although the identified
		instrumentalities have a number of releases
		and versions, these do not vary substantively
		as to the features that implement the claimed
		inventions.

F. The '720 Patent

The following Oracle Products practice the asserted claims of the '720 patent, as exemplified by the identified source code citations and/or documentation:

Identified Instrumentality	Source Code Citations / Documentation	Testifying Fact Witness And Summary
CDC AMS 1.0, 1.0_1, 1.0_2 (Personal Basis Profile and Personal Profile versions)	ansi_java_md.c mtask.c Warmup.java mtask.html	Erez Landau will testify in support of Oracle's contention that the identified instrumentalities practice the asserted claims of the '720 patent. He will explain the function and operation of the features of the products, with reference to source code and documentation, that implement the asserted claims of the '720 patent. He will further testify that although the identified instrumentalities have a number of releases and versions, these do not vary substantively as to the features that implement the claimed inventions.

Dated: January 6, 2012 MICHAEL A. JACOBS MARC DAVID PETERS MORRISON & FOERSTER LLP By: /s/ Marc David Peters

Attorneys for Plaintiff ORACLE AMERICA, INC.

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1 CERTIFICATE OF SERVICE 2 I declare that I am employed with the law firm of Morrison & Foerster LLP, whose address is 755 Page Mill Road, Palo Alto, California 94304-1018. I am not a party to the within cause, 3 and I am over the age of eighteen years. 4 I further declare that on January 6, 2012, I served a copy of: ORACLE'S DISCLOSURE OF PRODUCTS PRACTICING 5 **PATENT CLAIMS** 6 BY ELECTRONIC SERVICE [Fed. Rule Civ. Proc. rule 5(b)] by electronically X 7 mailing a true and correct copy through Morrison & Foerster LLP's electronic mail system to the e-mail address(es) set forth below, or as stated on the attached service 8 list per agreement in accordance with Federal Rules of Civil Procedure rule 5(b). 9 Robert F. Perry Timothy T. Scott 10 Scott T. Weingaertner Geoffrey M. Ezgar Leo Spooner III Bruce W. Baber 11 Mark H. Francis KING & SPALDING, LLP Christopher C. Carnaval 333 Twin Dolphin Drive, Suite 400 12 KING & SPALDING LLP Redwood Shores, CA 94065 1185 Avenue of the Americas 13 New York, NY 10036-4003 TScott@kslaw.com GEzgar@kslaw.com 14 LSpooner@kslaw.com RPerry@kslaw.com SWeingaertner@kslaw.com 15 bbaber@kslaw.com Fax: 650.590.1900 mfrancis@kslaw.com 16 ccarnaval@kslaw.com 17 212.556.2222 Fax: 18 Donald F. Zimmer, Jr. Steven Snyder Cheryl Z. Sabnis KING & SPALDING LLP 19 KING & SPALDING LLP 100 N. Tryon Street, Suite 3900 Charlotte, NC 28202 101 Second Street, Suite 2300 20 San Francisco, CA 94105 ssnyder@kslaw.com 21 fzimmer@kslaw.com csabnis@kslaw.com Fax: 704.503.2622 22 Fax: 415.318.1300 23 24 25 26 27 28

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